

Release notes for ENDF/B Development e-079\_Au\_000  
evaluation

**ENDF**  
**B-VII**.dev

October 13, 2016

- fudge-4.0 Warnings:

1. Mislabelled emitted particle  
*Reading ENDF file: ../e-079\_Au\_000.endf (Error # 0): ZAP messed up*  
  
WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
2. FIXME: Generic fudge unimplemented message  
*reaction label 1: e- + Au + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)*  
  
WARNING: Checking not yet implemented for energyLoss type data
3. FIXME: Generic fudge unimplemented message  
*reaction label 2: e- + Au [excitation] / Product: e- (Error # 0): Generic unimp (c)*  
  
WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree  
*reaction label 0: e- + Au [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
2. Calculated and tabulated thresholds don't agree  
*reaction label 1: e- + Au + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
3. Calculated and tabulated thresholds don't agree  
*reaction label 2: e- + Au [excitation] / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
4. Calculated and tabulated thresholds don't agree  
*reaction label 3: e- + e- + Au1s1/2 / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 80960. eV!
5. Calculated and tabulated thresholds don't agree  
*reaction label 4: e- + e- + Au2s1/2 / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14336. eV!
6. Calculated and tabulated thresholds don't agree  
*reaction label 5: e- + e- + Au2p1/2 / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13776. eV!
7. Calculated and tabulated thresholds don't agree  
*reaction label 6: e- + e- + Au2p3/2 / Cross section: (Error # 0): Threshold mismatch*

- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11922. eV!
8. Calculated and tabulated thresholds don't agree  
*reaction label 7:  $e^- + e^- + Au3s1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3401.4 eV!
9. Calculated and tabulated thresholds don't agree  
*reaction label 8:  $e^- + e^- + Au3p1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3144.3 eV!
10. Calculated and tabulated thresholds don't agree  
*reaction label 9:  $e^- + e^- + Au3p3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2734. eV!
11. Calculated and tabulated thresholds don't agree  
*reaction label 10:  $e^- + e^- + Au3d3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2300.7 eV!
12. Calculated and tabulated thresholds don't agree  
*reaction label 11:  $e^- + e^- + Au3d5/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2212.2 eV!
13. Calculated and tabulated thresholds don't agree  
*reaction label 12:  $e^- + e^- + Au4s1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 747.4 eV!
14. Calculated and tabulated thresholds don't agree  
*reaction label 13:  $e^- + e^- + Au4p1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 636.28 eV!
15. Calculated and tabulated thresholds don't agree  
*reaction label 14:  $e^- + e^- + Au4p3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 537.39 eV!
16. Calculated and tabulated thresholds don't agree  
*reaction label 15:  $e^- + e^- + Au4d3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 353.48 eV!
17. Calculated and tabulated thresholds don't agree  
*reaction label 16:  $e^- + e^- + Au4d5/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 335.05 eV!
18. Calculated and tabulated thresholds don't agree  
*reaction label 17:  $e^- + e^- + Au4f5/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 97.37 eV!

19. Calculated and tabulated thresholds don't agree  
*reaction label 18:  $e^- + e^- + Au4f7/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 93.39 eV!

20. Calculated and tabulated thresholds don't agree  
*reaction label 19:  $e^- + e^- + Au5s1/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 115.23 eV!

21. Calculated and tabulated thresholds don't agree  
*reaction label 20:  $e^- + e^- + Au5p1/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 78.55 eV!

22. Calculated and tabulated thresholds don't agree  
*reaction label 21:  $e^- + e^- + Au5p3/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 61.37 eV!

23. Calculated and tabulated thresholds don't agree  
*reaction label 22:  $e^- + e^- + Au5d3/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.16 eV!

24. Calculated and tabulated thresholds don't agree  
*reaction label 23:  $e^- + e^- + Au5d5/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.46 eV!

25. Calculated and tabulated thresholds don't agree  
*reaction label 24:  $e^- + e^- + Au6s1/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.300000000000001 eV!

- **xsectplotter** Warnings:

1. Mislabelled emitted particle  
*Error: ZAP messed up*

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0  
 ... [4 more lines]